Bruhat Bangalore Mahanagara Palike
Excecutive Engineer Project Division Dasarahalli

Name of Work: Development of Shettyhalli Burial Ground in S.No.55,56 and Deep land ward No12 C Category

SCHEDULE-B

Item No.	Description	Unit	Quantity	Rate, Rs	
				In Figures	In Words
1	KSRRB M200-11.1. Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300 mm, removalof stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to be used or auctioned, including removal and disposal of top organic soil not exceeding 150 mm in thickness complete as per specifications. II. By Mechanical Means:B. In area of thorny jungle	Sqm	0.49	26847.68	Rupees Twenty Six Thousand Eight Hundred Forty Seven And Paise Sixty Eight Only
2	KSRB 2-1 : Earthwork in surface excavation for levelling and lowering the ground manually (Other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift up to 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled including breaking of clods and neatly dressed as per specifications. KSRB 2-1.1: – do – Ordinary soil	Cum	10965.21	298.42	Rupees Two Hundred Ninety Eight And Paise Forty Two Only
3	KSRB 2-2 : Earthwork excavation by manual means for foundation of buildings, water supply and sanitary lines and electrical conduits etc, either in pits or in trenches 1.5m and above in width, in soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. including breaking of clods complete as per specifications.	Cum	900.91	332.34	Rupees Three Hundred Thirty Two And Paise Thirty Four Only

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Executive Engineer (Project) Dasarahalli)

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Item No.	Description	Unit	Quantity	Rate, Rs	
				In Figures	In Words
4	Earth work excavation for foundation of structures upto 3 mtrs. by mechanical means as per drawing and technical specification, including setting out, providing shoring, strutting and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom, filling back the excavated earth to the extent required and utilising / transporting the remaining earth upto 1.00km lead. including cost of labour, materials and HOM etc., complete.- do - Marshy soil.	Cum	244.40	400.18	Rupees Four Hundred And Paise Eighteen Only
5	KSRB 2.8 : Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. specification.	Cum	105.69	2240.84	Rupees Two Thousand Two Hundred Forty And Paise Eighty Four Only
6	KSRB 2-4 : Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per specifications.	Cum	195.59	80.56	Rupees Eighty And Paise Fifty Six Only
7	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2.	Cum	69.88	5348.76	Rupees Five Thousand Three Hundred Forty Eight And Paise Seventy Six Only
8	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.	Cum	122.91	4438.22	Rupees Four Thousand Four Hundred Thirty Eight And Paise Twenty Two Only
9	KSRB 15.1.3 – do – Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications.	Sqm	96.59	103.88	Rupees One Hundred Three And Paise Eighty Eight Only

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Item No.	Description	Unit	Quantity	Rate, Rs	
				In Figures	In Words
10	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons.	Sqm	753.00	310.58	Rupees Three Hundred Ten And Paise Fifty Eight Only
11	KSRB 4-6.3 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness above 200 mm including cost of all materials, labour complete as per Specification. Specification.	Sqm	151.05	407.04	Rupees Four Hundred Seven And Paise Four Only
12	KSRB 4.2.1 : Providing and laying in position reinforced cement concrete of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregtes @ 0.47cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification.	Cum	108.48	6371.66	Rupees Six Thousand Three Hundred Seventy One And Paise Sixty Six Only
13	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of Design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications.	Cum	28.16	6371.66	Rupees Six Thousand Three Hundred Seventy One And Paise Sixty Six Only

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Item No.	Description	Unit	Quantity	Rate, Rs	
				In Figures	In Words
14	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3 TMT bars Fe 500	Tn	14.59	64243.42	Rupees Sixty Four Thousand Two Hundred Forty Three And Paise Forty Two Only
15	KSRB 5-11 : Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications.	Sqm	369.87	993.22	Rupees Nine Hundred Ninety Three And Paise Twenty Two Only
16	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications.	Cum	4.05	5767.46	Rupees Five Thousand Seven Hundred Sixty Seven And Paise Forty Six Only
17	KSRB15-3.11 : Providing 20mm thick cement plaster in single coat with cement mortar 1:4, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.	Sqm	765.25	248.04	Rupees Two Hundred Forty Eight And Paise Four Only
18	KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. - with primer.	Sqm	765.25	89.04	Rupees Eighty Nine And Paise Four Only

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Item No.	Description	Unit	Quantity	Rate, Rs	
				In Figures	In Words
19	Providing and fixing M.S. Gate as per Chief Architect Drawing, using 50mm x 50mm 14 guage M.S. hollow pipe frame work bent to ornamental shape as shown in the drawing and 35mm x 6mm and 16 x 16mm Square rods for verticals alternatively spaced at 4cms c/c in two halves and 40mmx6mm M.S. flats for horizontal member and at the top cast iron spikes are provided at alternate vertical members asshown in the drawing etc., complete. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, with lead and lift, loading and unloading charges, etc., complete as per specifiocation.	Sqm	18.36	3110.04	Rupees Three Thousand Hundred Ten And Paise Fo
20	Fabricating, providing and erecting in position Hot dip galvanised Gate. Using 72 X 72 X 4.8mm Sq. GI Pipe Frame with Top pipe bending in heavy duty hydraulic press with sand packing and hot bending to form double arch as per drawing profile, 20mm hot dip galvanised sq. rod for verticals at 150mm c/c, as shown in the drawing including providing hot dip galvanised forged ornamental design in between sq. rods and heads at top, middle and bottom. Intermediate supports of 75X12 mm and 50X6 mm arch bend to hot dip galvanised flats. The work is inclusive of throughing GI flat GI sq. rods, placing, welding all the joints including grinding, finishing metal putty, painting two coats enamel painting. The rate is inclusive of all materials like GI sq. pipe, GI sq. rods, GI forged designs etc., heavy duty hinges are made out of 75mm solid sq. block assembled with 20mm dia bearing in three places for each flop. Heavy Duty Locking arrangements at tow places including cost of labour, painting, erecting charges using hoist pulley cranes with all lead and lift, loading, transportation, unloading, scaffolding charges and all other incidental charges for successful completion of the work as per directions of the Engineer-in-charge of the work. (Data Rate)	Sqm	15.62	12475.03	Rupees Twelve Tho Hundred Seventy Fi Three On

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Item No.	Description	Unit	Quantity	Rate, Rs	
				In Figures	In Words
21	KSRB 7.9 : Providing and fixing M.S. grill work for windows and ventilators weighing 21 kg/sqm using M.S. flats, or M.S. square rods, ro combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and and HOM of machinery complete as per specifications. Specification No. KBS 7.12.	Kg	133.65	84.24	Rupees Eighty Four And Paise Twenty Four Only
22	KSRB 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications.	Sqm	42.66	86.92	Rupees Eighty Six And Paise Ninety Two Only
23	Providing and fixing chlorinated poly venyl chloride (CPVC) pipes conforming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling & testing of joints complete,(external work)	m	422.00	486.00	Rupees Four Hundred Eighty Six Only
24	KSRB 13.11.1: Providing and placing on terrace. Polyethylene water storage tanks as per IS 12701 : 1996 with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per specifications. (For 1000 litre capacity) Specification	Nos	1.00	9144.36	Rupees Nine Thousand One Hundred Forty Four And Paise Thirty Six Only

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Item No.	Description	Unit	Quantity	Rate, Rs	
				In Figures	In Words
25	Fabricating supplying and erecting M.S. TubulerTruss of all span as per approved drawing design with prefabricated applications using quality material and are durable reliable and corrosion and abrasion resistant. welding shall confirm to latest structural welding code. Quality shall be on various parameters like shape, size, design gauge and polish. The entire trusses is anchored in RCC column by using 4 nos of M.S. anchor bolts at each support with 10mm thick base plate and shoe plate. The work includes cutting, straightening, placing in position of M.S. pipes and welding wherever necessary and applying one coat of redoxide primer coat to all the members including cost of all materials, labour charges of machineries for cutting, welding, grinding and erection equipments, with alllead and lift, transportation, etc, complete as per specification.	Kg	1096.76	118.80	Rupees One Hundred Eighteen And Paise Eighty Only
26	Supplying and fixing new Mangalore tiles on existing reepers.	Sqm	86.92	392.04	Rupees Three Hundred Ninety Two And Paise Four Only
27	Providing Mangalore Ridge tiles set in C.M. 1:2 and pointed with C.M. 1:2.	m	48.00	190.08	Rupees One Hundred Ninety And Paise Eight Only
28	Providing corrugated cement asbestos Ridge sheets set in C.M. 1:3 and pointed with C.M. 1:3. including cost of materials, labour, HOM complete as per specifications.	m	24.00	470.88	Rupees Four Hundred Seventy And Paise Eighty Eight Only
29	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its qualityf 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., as per Specification and direction	Nos	1.00	1938.46	Rupees One Thousand Nine Hundred Thirty Eight And Paise Forty Six Only

EXECUTIVE ENGINEER-4
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Item No.	Description	Unit	Quantity	Rate, Rs	
				In Figures	In Words
30	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding cost of casing pipes, collars, cap etc.,)	0.00	0.00	0.00	Rupees Nil
	Upto 50.00 m depth	m	50.00	315.18	Rupees Three Hundred Fifteen And Paise Eighteen Only
	Above 50.00 to 100.00 m	m	50.00	412.00	Rupees Four Hundred Twelve Only
	Above 100.00 to 150.00 m	m	50.00	458.35	Rupees Four Hundred Fifty Eight And Paise Thirty Five Only
	Above 150.00 to 200.00 m	m	50.00	484.10	Rupees Four Hundred Eighty Four And Paise Ten Only
	Above 200.00 to 250.00 m	m	50.00	560.32	Rupees Five Hundred Sixty And Paise Thirty Two Only
	Above 250.00 to 300.00 m	m	50.00	600.49	Rupees Six Hundred And Paise Forty Nine Only
	Above 300.00 to 350.00 m	m	50.00	640.66	Rupees Six Hundred Forty And Paise Sixty Six Only
31	Supply of ISI mark 175 mm nominal bore medium black ERW casing pipe of 5 mm thick black electric resistance continuous welded mild steel tube material confirming to IS 1387 / 1993 & manufactured from hot rolled steel skelp / stripes in random length of 4 to 7 mts both ends threaded confirming to IS 554 / 1985, one end fixed with a socket confirming to IS 4270 : 2001 and other end with Screwed pipes. All pipes shall be resonably free from defects. The tube shall be resonably stright should be with ISI marking, weighing 25.10 kg/m (inclusive of all taxes and durties). Prices include Collar-medium duty material Component	m	44.00	1325.00	Rupees One Thousand Three Hundred Twenty Five Only

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Item No.	Description	Unit	Quantity	Rate, Rs	
				In Figures	In Words
32	Providing 175mm dia ms collar	Nos	2.00	150.00	Rupees One Hundred Fifty Only
33	Providing 175mm dia bore cap CE(M)	Nos	1.00	100.00	Rupees One Hundred Only
34	Supplying PVC pipes 100kg/Sqm 250mm Dia PVC (casing pipe)	Nos	50.00	2600.00	Rupees Two Thousand Six Hundred Only
35	Providing and fixing in trenches galvanised / mild steel tubes (medium grade) 50mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for separately) including cost of all materials, labour charges, HOM and testing complete as per specifications. Specification No.KBS 13.2.14 / 13.6	m	320.00	457.92	Rupees Four Hundred Fifty Seven And Paise Ninety Two Only
36	Supply and delivery at site brand Atalanbta, Suguna, CRI Kirloskar and other equipment pumps 10.00 HO/7.5KV 920 Stages)	Nos	1.00	50100.00	Rupees Fifty Thousand One Hundred Only
37	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to table 3 class 5 of IS flexible copper conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100Volts as per IS-694:1990 & confirming to GTP of Group-A	m	360.00	126.70	Rupees One Hundred Twenty Six And Paise Seventy Only
38	Providing and fixingin position 50mm nominal bore non-returnable valve vertical type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification NO.KBS 13.2.10/13.13	Nos	1.00	1521.10	Rupees One Thousand Five Hundred Twenty One And Paise Ten Only
39	Supplying and fixing 50mm GI Union	Nos	1.00	223.70	Rupees Two Hundred Twenty Three And Paise Seventy Only
40	Supplying and fixing 50mm GI Elbow	Nos	1.00	111.80	Rupees One Hundred Eleven And Paise Eighty Only
41	Supplying and fixing 50mm GI Nipple	Nos	1.00	104.30	Rupees One Hundred Four And Paise Thirty Only
42	Supplying and fixing 50mm GI Collar	Nos	1.00	103.00	Rupees One Hundred Three Only

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Item No.	Description	Unit	Quantity	Rate, Rs	
				In Figures	In Words
43	Fabricating supplying and mounting MS box made out 14 SWG suitable for floor/wall mounting, fully weather proof provision for better heat dissipation proveded with hinged front cover equipped with tamper proof locking a arrangements with suitable size clamps with necessary cable entry pipe with glad and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enamelled metal paint etc.., complete.	Sq cm	19900.00	0.37	Rupees And Paise Thirty Seven Only
44	Supply and fixing angle iron grame work fabricated out of M.S angle iron. And M.S flat. With bolts, washers etc.., cand painted with 2 coats of red oxide and then 2 coats approved paint. 50x50x6mm	Nos	1.00	338.00	Rupees Three Hundred Thirty Eight Only
45	Supply of TPST with rewireable porcelain Channels in SM encloser. Made out of 14 SWG powder coated paint of approved colour. 32 amps	Nos	1.00	1868.00	Rupees One Thousand Eight Hundred Sixty Eight Only
46	Supplying and fixing 20"x20"x2.5" polished wood board made up not less than 15mm thick plank with front plank one end provided for olding at other end fixing the same of the valve using through bolts and nuts.	Nos	1.00	302.00	Rupees Three Hundred Two Only
47	Supplying and fixing LED Type panel board indicating lamp with required colour suitable for 220V AC 50 Hz 1224 DC	Nos	1.00	442.00	Rupees Four Hundred Forty Two Only
48	Supplying fully automatic star-delta starter unit push button type with suitable wires, 3 contactors, one adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 volts 3 phase and wired after fixing to the existing wooden board for motor.Above 15 HP upto 25 HP	Nos	1.00	6583.00	Rupees Six Thousand Five Hundred Eighty Three Only
49	Supplying and fixing single phase preventer using necessary wires over an existing panel board suitable for motor upto 20HP capacities.	Nos	1.00	768.00	Rupees Seven Hundred Sixty Eight Only
50	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade multistrand copper conductor single core wire in open or concealed system of wiring as per IS 694: 1990 &confirming to the attached GTP of Group A 4mm Sqmm.	m	50.00	42.10	Rupees Forty Two And Paise Ten Only
51	Supplying fixing and wiring heavy duty low voltage capacitors conforming to IS 2834.3 Phase, 400/440 bolts gradem for power factor immprovement of rotating machinery.	Nos	5.00	414.00	Rupees Four Hundred Fourteen Only

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Item No.	Description	Unit	Quantity	Rate, Rs	
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52	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, m indicator ON/OFF , energy cross-3 with short circuit breaking capacity of 10 K and complete wiring as required confirming to IES 60898. 40-63 Amps TPN.	Nos	1.00	1936.00	Rupees One Thousand Nine Hundred Thirty Six Only
53	Supplying and fixing wiring, earth electrode for grounding conduits IC Cutouts and other equipments on the meter board using 40mm dia 2.90mm thick GI Pipe 2.5 Mtr long buried in a pit..... The pit should be filled with equal proportion of salt and charocoal 150mm alround the pipe to complete depth. The connections from the pipe to the conduit etc, is to be established though GI Wire of size as per ISI Specification 7.3.3 of IS 732 using 12mm dia bolts, nuts, washers and checknuts etc, the pipe shall have 16 through holes of 122 mm dia. (PWD Ele SR 2014-15,	Nos	1.00	2727.00	Rupees Two Thousand Seven Hundred Twenty Seven Only
54	Supplying and fixing Class-A (Medium duty) -GI pipe wall thickness not less than 3.25mm on pole/wall/Drain crossing with necessary clamping arrangements for UG Cable of 1.1 KV class 40mm (PWD Ele SR 2014-15,	m	5.00	345.00	Rupees Three Hundred Forty Five Only
55	Supplying laying of 1.1 KV class L.T.U.G Cable having aluminium conductor PVC insulated extruded inner shethed galvanised steel strip (except 2C x 10 Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with speicified IS-1554, Part-1:1988 & confirming to the attached GTP of Group A 4 core to 16Sqmm (PWD Ele SR 2014-15,	m	40.00	140.40	Rupees One Hundred Forty And Paise Forty Only
56	Labour charge for laying of 1.1 KV class UG cablein existing trench GI pipe / stoneeware pipe / on wall / o pole as required. IN existing trench // duct . 6sqmm to 16sqmm .	Nos	50.00	10.80	Rupees Ten And Paise Eighty Only
57	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating in Hard soil etc., complete.	Nos	50.00	106.00	Rupees One Hundred Six Only
58	Supplying and fixing LT cast iron pot heads suitable for 1.1 KV class UG cable filled wiith necessary bitumen / insulating compound complete. With terminals, clamps, bolts nuts and washers etc.complete for 16 Sqmm as per specification.	Nos	1.00	280.00	Rupees Two Hundred Eighty Only

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BENGALURU-560 010

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Item No.	Description	Unit	Quantity	Rate, Rs	
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59	KSRB 14.6-1: Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. Specification No. KBS.	Sqm	216.31	966.72	Rupees Nine Hundred Sixty Six And Paise Seventy Two Only
60	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete	Nos	116.00	331.78	Rupees Three Hundred Thirty One And Paise Seventy Eight Only
61	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications.	Sqm	15.63	63.60	Rupees Sixty Three And Paise Sixty Only

EXECUTIVE ENGINEER-4
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Item No.	Description	Unit	Quantity	Rate, Rs	
				In Figures	In Words
62	Supply & fixing of Elliptical Cross Trainer: All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat and backrest is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 845 MM x 865 MM x 1710 MM . Capacity 1 person. Inclusive of All Taxes and Transportation Charges (Data approved rate)	Nos	1.00	175000.00	Rupees One Lakh(s) Seventy Five Thousand Only

EXECUTIVE ENGINEER-4
KRIDL, BSMP DIVISON
BENGALURU-560 010

EXECUTIVE ENGINEER (Project)
Project Division
Bruhat Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore-73.

Executive Engineer (Project Dasarahalli)

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Item No.	Description	Unit	Quantity	Rate, Rs	
				In Figures	In Words
63	Fixing and Installation of Double Chest Press station: Size -130 X 60 X 144 CM, that must contain two A.R.M MODULES (Angular resistance, bearing less module) that works as dual action [push and pull / extension & contraction] connected to a main center pillar od OD 89mm of min 3mm thickness. The A.R.M must be bearing less, shock less, drop less and provide 0-30 kg resistance. The seats are fixed to the main post and do not move up and down - [Seats are immovable] to ensure it is safe & stable, zero drops and support disable people to use the product without risk of falling or slipping off. All fasteners to be of 304 stainless, Torx Anti Vandal Fasteners, All nuts enclosed in Polyamide Anti Vandal Caps. Finishing to be Metalized / Plasma zinc injection + Dupont/Alexta outdoor use color powder electrostatic coating, The handles are of 3mm Endu-Rubber with aluminum cap locking anti vandal system. Safe Zone : 430 X 360 CM. Inclusive of All Taxes and Transportation Charges	Nos	1.00	366687.00	Rupees Three Lakh(s) Sixty Six Thousand Six Hundred Eighty Seven Only

EXECUTIVE ENGINEER-1
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EXECUTIVE ENGINEER (Project)
Project Division
Executive Engineer (Project Division)
Bruhat Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore-73

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Item No.	Description	Unit	Quantity	Rate, Rs	
				In Figures	In Words
64	Supply & fixing of Self Weighted Rower : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat and backrest is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 1390 MM x 805 MM x 1198 MM . Capacity 1 person. Inclusive of All Taxes and Transportation Charges (Data approved rate)	Nos	1.00	206250.00	Rupees Two Lakh(s) Six Thousand Two Hundred Fifty Only

EXECUTIVE ENGINEER-4
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EXECUTIVE ENGINEER (Project)
Project Division
Bruhat Bengaluru Mahanagara Palike
Dasarahalli Zone, Bangalore-73.

Executive Engineer (Project-Dasarahal

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Item No.	Description	Unit	Quantity	Rate, Rs	
				In Figures	In Words
65	Supply & fixing of HD Health Walker :All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out in excess of at least 50 public park projects in India either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Footplates made of alloys of Nylon having good thermal stability. Internal Limited means no bump stops or crush points. Bearings : Maintenance-free ball bearings. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 1070 MM x 615 MM x 1360 MM . Capacity 1 person. Inclusive of All Taxes and Transportation Charges	Nos	1.00	175000.00	Rupees One Lakh(s) Seventy Five Thousand Only

EXECUTIVE ENGINEER-4
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Item No.	Description	Unit	Quantity	Rate, Rs	
				In Figures	In Words
66	Fixing and installation of a three person body twister station: Size -131 X 100 X 133CM, that consists of three swivel stands that rotates but with a built in safety limitor that meets international safety standards as the arms and shoulders of the user are held square in the overhead hold that is fixed to a monolithic large arc tube center pillar without convex sides & minimal deformation ergonomically curved. The Center pillar has an OD of 89 mm, the wall thickness is min 3 mm & has a 8mm thick, 40cm gusset support at standard height of 1.4m. All fasteners to be of 304 stainless, Torx Anti Vandal Fasteners, All nuts enclosed in Polyamide Anti Vandal Caps. Finishing to be Metalized / Plasma zinc injection + Dupont/Alexta outdoor use color powder electrostatic coating. Safe Zone : 430 X 400 CM. Inclusive of All Taxes and Transportation Charges (Data approved rate)	Nos	1.00	234574.00	Rupees Two Lakh(s) Thirty Fou Thousand Five Hundred Seven Four Only

EXECUTIVE ENGINEER-4
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Executive Engineer (Project Da
Dasarahalli Zone, Bangalore

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Item No.	Description	Unit	Quantity	Rate, Rs	
				In Figures	In Words
67	Supply & fixing of Leg Stretch : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 935 MM x 810 MM x 1135 MM . Capacity 3 persons. Inclusive of All Taxes and Transportation Charges	Nos	1.00	48800.00	Rupees Forty Eight Thousand Eight Hundred Only

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EXECUTIVE ENGINEER (Project)
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Executive Engineer (Project-Dasarahalli

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Item No.	Description	Unit	Quantity	Rate, Rs	
				In Figures	In Words
68	Supply & fixing of Rider : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 910 MM x 655 MM x 1210 MM . Capacity 1 person. Inclusive of All Taxes and Transportation Charges	Nos	2.00	112500.00	Rupees One Lakh(s) Twelve Thousand Five Hundred Only

EXECUTIVE ENGINEER-4
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BENGALURU-560 010

Contractor

EXECUTIVE ENGINEER (Project)
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Executive Engineer (Project-Dasara
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Item No.	Description	Unit	Quantity	Rate, Rs	
				In Figures	In Words
69	Supply & fixing of HD Squat Pushing : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat and backrest is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 2270 MM x 635 MM x 1640 MM . Capacity 2 persons. Inclusive of All Taxes and Transportation Charges	Nos	1.00	268750.00	Rupees Two Lakh(s) Sixty Eight Thousand Seven Hundred Fifty Only

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISON
BENGALURU-560 010

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Dasarahalli Zone, Bangalore-73.

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	Description	Unit	Quantity	Rate, Rs	
				In Figures	In Words
70	Fixing and Installation of a 2 person air skier machine : Size - 113 X 50 X 133 CM, that consists of 2 arms with high grade fullfoot moulded foot rests made of high grade LLDPE which is attached to a monolithic large arc tube central pillar without convex sides & minimal deformation which are ergonomically curved to provide a pleasing aesthetic look with an OD of 89 mm, the wall thickness is min 3 mm & has a 8mm thick, 40cm gusset support. The arms are limited in movement as per international safety norms by the use of safe stopper [limiter]. All fasteners to be of 304 stainless, Torx Anti Vandal Fasteners, All nuts enclosed in Polyamide Anti Vandal Caps. Finishing to be Metalized / Plasma zinc injection + Dupont/Alexta outdoor use color powder electrostatic coating. Safe Zone : 410 X 350 CM. Inclusive of All Taxes and Transportation Charges	Nos	1.00	244362.00	Rupees Two Lakh(s) Forty Four Thousand Three Hundred Sixty Two Only
71	Fixing and Installation of a Leg Curl & Extension Machine: Size - 91 X 40 X 133 CM, that contains a leg extension/curl dual action section that is affixed to the main monolitic curved arc tube central pillar without any convex sides of 89mm OD and min wall thickness of 3 mm & has a 8mm thick, 40cm gusset support using a ONE A.R.M MODULE (Angular resistance, bearing less module) that works as dual action [push and pull / extension & contraction]. The ARM must be bearing less, shock less, drop less and provide 0-30 kg resistance. The seats are fixed to the main curved central pillar and do not move up and down - [Are immovable] to ensure it is safe & stable, zero drops and support disable people to use the product without risk of falling or slipping off. All fasteners to be of 304 stainless, Torx Anti Vandal Fasteners, All nuts enclosed in Polyamide Anti Vandal Caps. The seat must consist of PU Polysafe cusions seats. Finishing to be Metalized / Plasma zinc injection + Dupont/Alexta outdoor use color powder electrostatic coating. Safe Zone : 390 X 340 CM. Inclusive of All Taxes and	Nos	1.00	287175.00	Rupees Two Lakh(s) Eighty Seven Thousand One Hundred Seventy Five Only

EXECUTIVE ENGINEER-4
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Contractor

EXECUTIVE ENGINEER (Project)
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Bruhat Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore-73

Executive Engineer (Project-Dasara
Dasarahalli Zone, Bangalore-73

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Item No.	Description	Unit	Quantity	Rate, Rs	
				In Figures	In Words
72	Fixing and Installation of an Aero Walker: Size - 144 X 50 X 133 CM, that consists of 2 arms with high grade fullfoot moulded foot rests made of high grade LLDPE which is attached to two central pillars which are ergonomically curved monolithic arc tubes iwth minimal deformation to provide a pleasing aesthetic look with an OD of 89 mm, the wall thickness is min 3 mm & has a 8mm thick, 40cm gusset support. The arms are limited in movement as per international safety norms by the use of safe stopper [limiter]. The systems has 3mm Endu-Rubber handles with aluminum cap locking anti vandal system. All fasteners to be of 304 stainless, Torx Anti Vandal Fasteners, All nuts enclosed in Polyamide Anti Vandal Caps. Finishing to be Metalized / Plasma zinc injection + Dupont/Alexta outdoor use color powder electrostatic coating. Safe Zone : 450 X 350 CM. Inclusive of All Taxes and Transportation Charges	Nos	1.00	251349.00	Rupees Two Lakh(s) Fifty One Thousand Three Hundred Forty Nine Only

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KRIDL, BBMP DIVISON
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EXECUTIVE ENGINEER (Project)
Project Division

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Item No.	Description	Unit	Quantity	Rate, Rs	
				In Figures	In Words
73	Supply & fixing of Pull Down Challenger : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat and backrest is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 2570 MM x 840 MM x 2200 MM . Capacity 2 persons. Inclusive of All	Nos	1.00	296000.00	Rupees Two Lakh(s) Ninety Six Thousand Only

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISON
BENGALURU-560 010

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Project Division
Brubat Bangalore Mahanag
Executive Engineer (Projec
Dasarahalli Zone, Bangalo

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Item No.	Description	Unit	Quantity	Rate, Rs	
				In Figures	In Words
74	Supplying and fixing Porcelain fuse channel with cut out on the existing wooden / panel using necessary nuts , bolrs and washers. 63 Amps.	Nos	4.00	234.00	Rupees Two Hundred Thirty Four Only
75	BESCOM Deposit charges and miscellanesous	Nos	3.00	15000.00	Rupees Fifteen Thousand Only

Contractor

Executive Engineer
Project Division, Dasarahalli
BBMP

EXECUTIVE ENGINEER-4
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